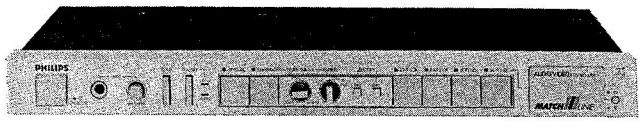
Audio/Video Controller 22AV1100/01/05

Service
Service
Service



37 714 A

Service Manual

GB

TECHNICAL SPECIFICATIONS

VIDEO SECTION (EXT.1, EXT.2, VCR1, VCR2)

Video Input Sensitivity/Impedance	1 Vpp/75Ω
Video Output Level/Impedance	1 Vpp/75Ω
Signal-to-Noise Ratio (Video Signal)	60 dB
Cross Talk (Video Signal)	45 dB (4.43 MHz)
Frequency Response (Video Signal)	±3 dB (10 Hz - 7 MHz)
Audio Input Sensitivity/Impedance	500 mV/10 kΩ
Audio Output Level/Impedance	500 mV/250 Ω
Signal-to-Noise Ratio (150 mV Audio Signal)	60 dB
D.N.R. effect (Audio Signal)	10 dB
Separation (Audio Signal, L/R)	50 dB (1 kHz)
Cross Talk (Audio Signal)	50 dB (1 kHz)
Frequency Response (Audio Signal)	—3 dB (20 Hz - 60 kHz)

AUDIO SECTION (AUDIO, MIC)

Audio Input Sensitivity/Impedance	500 mV/10 kΩ
Mic Input Sensitivity/Impedance	2.2 mV/15 kΩ
Audio Output Level/Impedance	500 mV/250 Ω
Signal-to-Noise Ratio (150 mV Audio Signal)	60 dB
Separation (Audio Signal, L/R)	50 dB (1 kHz)
Cross Talk (Audio→Audio)	50 dB (1 kHz)
(Video→Audio)	65 dB (50 Hz. 15 kHz)
(Audio→Video)	60 dB (1 kHz)
Frequency Response (Audio Signal)	—3 dB (20 Hz - 60 kHz)
Maximum Input Level (Audio Signal)	2 Vrms
Maximum Output Level (Audio Signal)	2 Vrms

GENERAL

Mains Voltage	220-240 V~/50 Hz
Power Consumption	7 W
Dimensions (WxHxD)	420x37x192 mm
Weight	2.0 kg

NL

TECHNISCHE SPECIFICATIE

VIDEO GEDEELTE (EXT.1, EXT.2, VCR1, VCR2)

Video ingangsgevoeligheid/impedantie	
Video uitgangsgevoeligheid/impedantie	
Signaal/ruis-verhouding (Video signaal)	
Overspraak (video signaal)	
Frekwentiekarakteristiek (Video signaal)	
Audio ingangsgevoeligheid/impedantie	
Audio uitgangsgevoeligheid/impedantie	
Signaal/ruis-verhouding (150 mV Audio signaal)	
D.N.R. effekt (Audio signaal)	
Scheiding (Audio signaal, L/R)	
Overspraak (Audio signaal)	
Frekwentie karakteristiek (Audio signaal)	

AUDIO GEDEELTE (AUDIO, MIC)

Audio ingangsgevoeligheid/impedantie	
Mic ingangsgevoeligheid/impedantie	
Audio uitgangsniveau/impedantie	
Signaal/ruisverhouding (150 mV, Audio signaal)	
Scheiding (Audio signaal L/R)	
Overspraak (Audio→Audio)	
(Video→Audio)	
(Audio→Video)	
Frekwentiekarakteristiek (Audio signaal)	
Maximaal ingangsniveau (Audio signaal)	
Maximaal uitgangsniveau (Audio signaal)	

ALGEMEEN

Netspanning	
Opgenomen vermogen	
Afmetingen (BxHxD)	
Gewicht	

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

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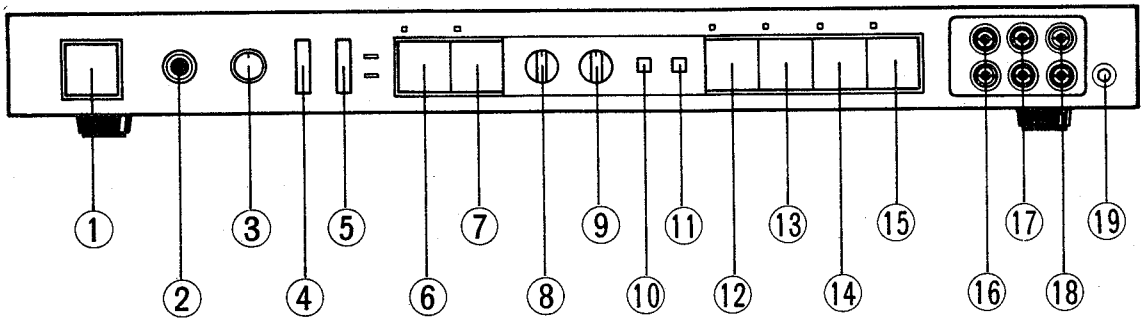
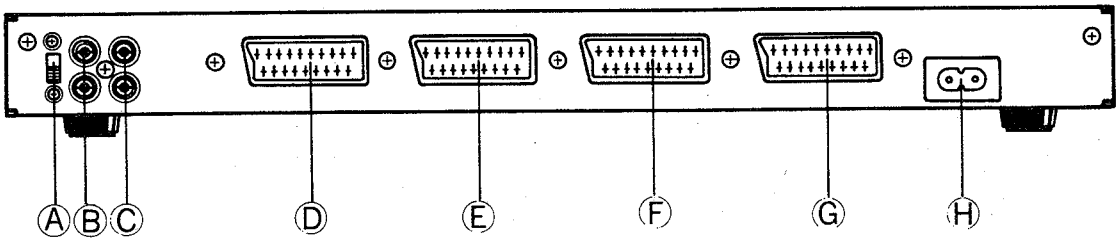


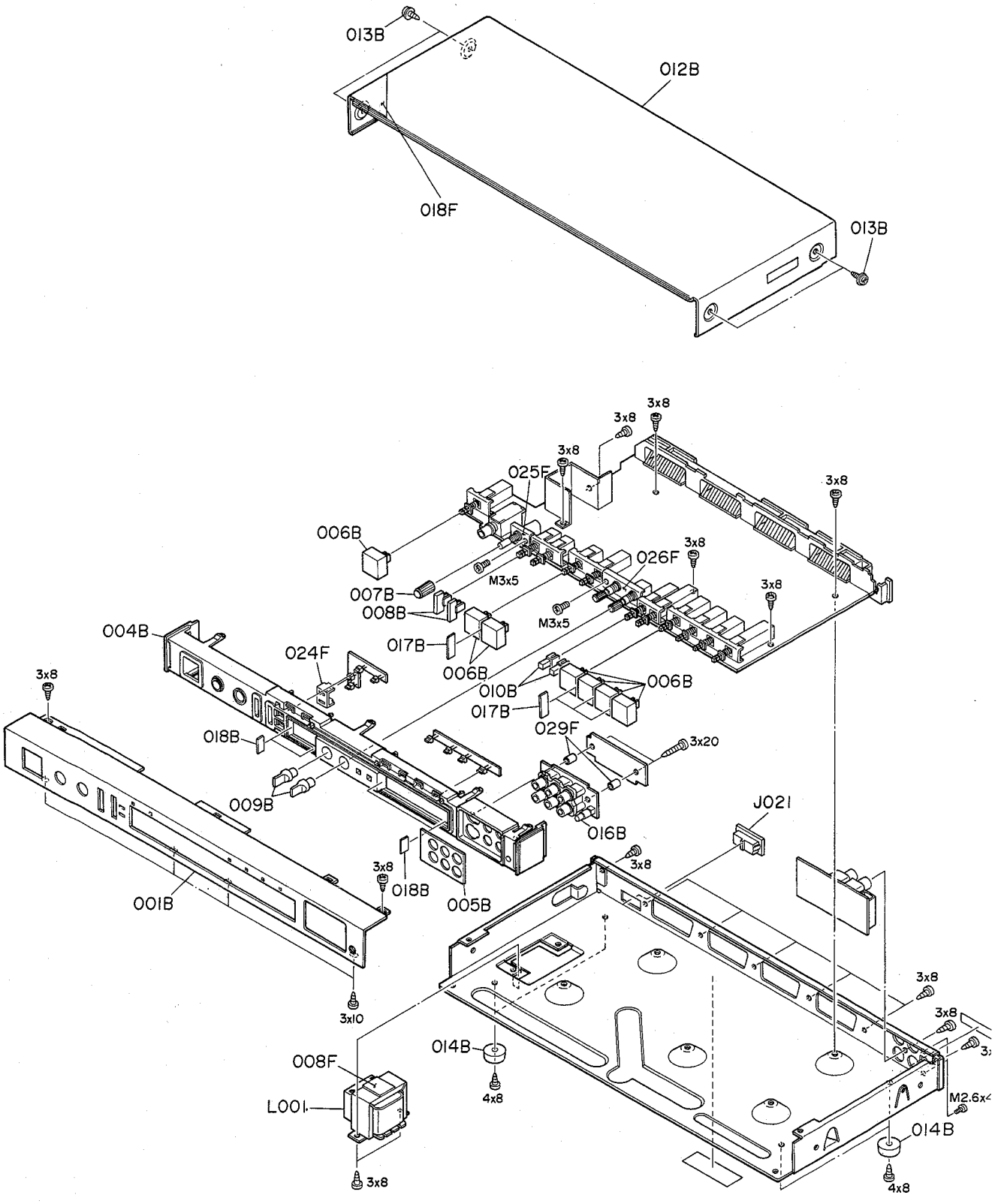


CONNECTION AND CONTROLS

1	Mains switch	SG06
2	Mic. input	JS22
3	Mic. level control	RD09
4	D.N.R. switch	SG04
5	Video/Audio sound switch	
6	Spatial stereo switch	SG05
7	Enhancer switch	
8	Sharpness control	RE17
9	Fader control	RE01
10	Copy 1 → 2 switch	SG07
11	Copy 2 → 1 switch	
12	Ext.1 switch	SG01
13	Ext.2 switch	
14	VCR1 switch	
15	VCR2 switch	
16	VCR2 video input/output	JW01
17	VCR2 audio (L) input/output	
18	VCR2 audio (R) input/output	
19	VCR2 stereo/mono. switch	SG03(016B)

A	VCR1 stereo/mono. switch	SG02
B	VCR1 audio (R) input/output	JS05
C	VCR1 audio (L) input/output	
D	Monitor	JS04
E	VCR1 input/output	JS03
F	EXT.2 input	JS02
G	EXT.1 input	JS01
H	AC inlet	J021

EXPLODED VIEW



Pos.	Code number	Description
001B	4822 459 60988	Front
004B	4822 404 30727	Bracket
005B	4822 347 10293	Indicating plate
006B	4822 410 24098	Knob
007B	4822 413 31317	Knob
008B	4822 410 24101	Knob
009B	4822 413 31318	Knob
010B	4822 410 24097	Knob
012B	4822 432 91719	Cover
013B	4822 502 30373	Screw
014B	4822 462 71361	Foot
016B	4822 413 20147	Knob + switch
017B	4822 466 81605	Spacer
018B	4822 466 81605	Spacer
001F	4822 435 60055	Bottom
008F	4822 462 71362	Distance piece
022F	4822 325 20127	Heatsink
024F	4822 255 40457	Holder
025F	4822 404 30725	Bracket
026F	4822 404 30726	Bracket
029F	4822 526 10291	Bushing
031F	4822 255 40458	Spacer
JS01	4822 267 60123	Socket, EXT.1
JS02	4822 267 60123	Socket, EXT.2
JS03	4822 267 60123	Socket, VCR1
JS04	4822 267 60123	Socket, monitor
JS05	4822 267 40581	Socket, AUDIO IN
JS22	4822 267 20272	Socket, mic
JW01	4822 267 50539	Socket, VCR2
J021	4822 265 20222	Socket, AC
W001	4822 321 21123	Mains cord /00
W001	4822 321 10377	Mains cord /05
001V	4822 432 91741	Cover

1S1555TP3		4822 130 32815
1SR35-200		4822 130 32816
1SS133		4822 130 32778
MA1091	9.1 V	4822 130 32109
RD3.9EB1		4822 130 32377
SEL-1120R		4822 130 32779
SEL-1320R		4822 130 32817
2SA1175EF		4822 130 42591
2SC1383Q		4822 130 42592
2SC2785EF		5322 130 42052
2SD1302S		4822 130 42125
LC4066B		4822 209 83067
LM1894N		4822 209 81501
UPC7812H		4822 209 83066
LE01		4822 157 10199
L001		4822 146 21001

CK04	680 pF	4822 124 21687
CK33	3 pF	4822 122 40299
CK34	3 pF	4822 122 40299
CK35	3 pF	4822 122 40299
C805	0,1 µF - 50 V	4822 124 21596
C911	0,1 µF - 50 V	4822 124 21596
RD09	5 kΩ	4822 100 30052
RE01	100 kΩ	4822 100 30049
RE17	2 kΩ	4822 100 30051
RN25	6,8 Ω 0,25 W	4822 111 20379
RN35	4,7 Ω 0,25 W	4822 111 90722
RN36	22 Ω 0,25 W	4822 113 90119
SG01		4822 276 11488
SG02		4822 276 11489
SG04		4822 276 11483
SG05		4822 276 11487
SG06		4822 276 11484
SG07		4822 276 11486

(D)

TECHNISCHE SPEZIFIKATION

VIDEOTEIL (EXT.1, EXT.2, VCR1, VCR2)

Video-Eingangsempfindlichkeit/Impedanz	1 Vss/75Ω
Video-Ausgangspegel/Impedanz	1 Vss/75Ω
Rauschabstand (Videosignal)	60 dB
Uebersprechen (Videosignal)	45 dB (4.43 MHz)
Frequenzgang (Videosignal)	±3 dB (10 Hz - 7 MHz)
Audio-Eingangsempfindlichkeit/Impedanz	500 mV/10 kΩ
Audio-Ausgangspegel/Impedanz	500 mV/250 Ω
Rauschabstand (150 mV Audiosignal)	60 dB
D.N.R. Effekt (Audiosignal)	10 dB
Trennung (Audiosignal, L/R)	50 dB (1 kHz)
Uebersprechen (Audiosignal)	50 dB (1 kHz)
Frequenzgang (Audiosignal)	—3 dB (20 Hz - 60 kHz)

AUDIOTEIL (AUDIO, MIC)

Audio-Eingangsempfindlichkeit/Impedanz	500 mV/10 kΩ
Mic-Eingangsempfindlichkeit/Impedanz	2.2 mV/15 kΩ
Audio-Ausgangspegel/Impedanz	500 mV/250 Ω
Rauschabstand (150 mV Audiosignal)	60 dB
Trennung (Audiosignal, L/R)	50 dB (1 kHz)
Uebersprechen (Audio→Audio)	50 dB (1 kHz)
(Video→Audio)	65 dB (50 Hz. 15 kHz)
(Audio→Video)	60 dB (1 kHz)
Frequenzgang (Audiosignal)	—3 dB (20 Hz - 60 kHz)
Höchst-Eingangspegel (Audiosignal)	2 Veff
Höchst-Ausgangspegel (Audiosignal)	2 Veff

ALLGEMEINES

Netzspannung	220-240 V~/50 Hz
Leistungsaufnahme	7 W
Abmessungen (BxHxT)	420x37x192 mm
Gewicht	2.0 kg

(F)

CARACTERISTIQUES TECHNIQUES

SECTION VIDEO (EXT.1, EXT.2, VCR1, VCR2)

Sensibilité d'entrée vidéo/impédance	
Niveau de sortie vidéo/impédance	
Rapport signal/bruit (signal vidéo)	
Diaphonie (signal vidéo)	
Courbe de réponse (signal vidéo)	
Sensibilité d'entrée audio/impédance	
Niveau de sortie audio/impédance	
Rapport signal/bruit (150 mV signal audio)	
Effet DNR (signal audio)	
Séparation (signal audio, G/D)	
Diaphonie (signal audio)	
Courbe de fréquence (signal audio)	

SECTION AUDIO (AUDIO, MIC)

Sensibilité d'entrée /impédance (audio)	
Sensibilité d'entrée Mic/impédance	
Niveau de sortie audio/impédance	
Rapport signal/bruit (150 mV signal audio)	
Séparation (signal audio G/D)	
Diaphonie (Audio→Audio)	
(Video→Audio)	
(Audio→Video)	
Courbe de réponse (signal audio)	
Niveau d'entrée max. (signal audio)	
Niveau de sortie max. (signal audio)	

GENERALITES

Tension secteur	
(Consommation) Puissance absorbée	
Dimensions (larg. x haut x prof.)	
Poids	

(I)

DATI TECNICI

SEZIONE VIDEO (EXT.1, EXT.2, VCR1, VCR2)

Sensibilité d'ingresso/impedenza	1 Vpp/75Ω
Livello di uscita video/impedenza	1 Vpp/75Ω
Rapporto seguale/disturbo (video)	60 dB
Diafonia (segnale video)	45 dB (4.43 MHz)
Curva di risposta (segnale video)	±3 dB (10 Hz - 7 MHz)
Sensibilitá d'ingresso audio/impedenza	500 mV/10 kΩ
Sensibilitá di unscita audio/impedenza	500 mV/250 Ω
Rapporto segnale/ronzio (150 mV segnale audio)	60 dB
Effeto DNR (segnale audio)	10 dB
Separazione (segnale audio S/D)	50 dB (1 kHz)
Diafonia (segnale audio)	50 dB (1 kHz)
Eurva di risposta (segnale audio)	—3 dB (20 Hz - 60 kHz)

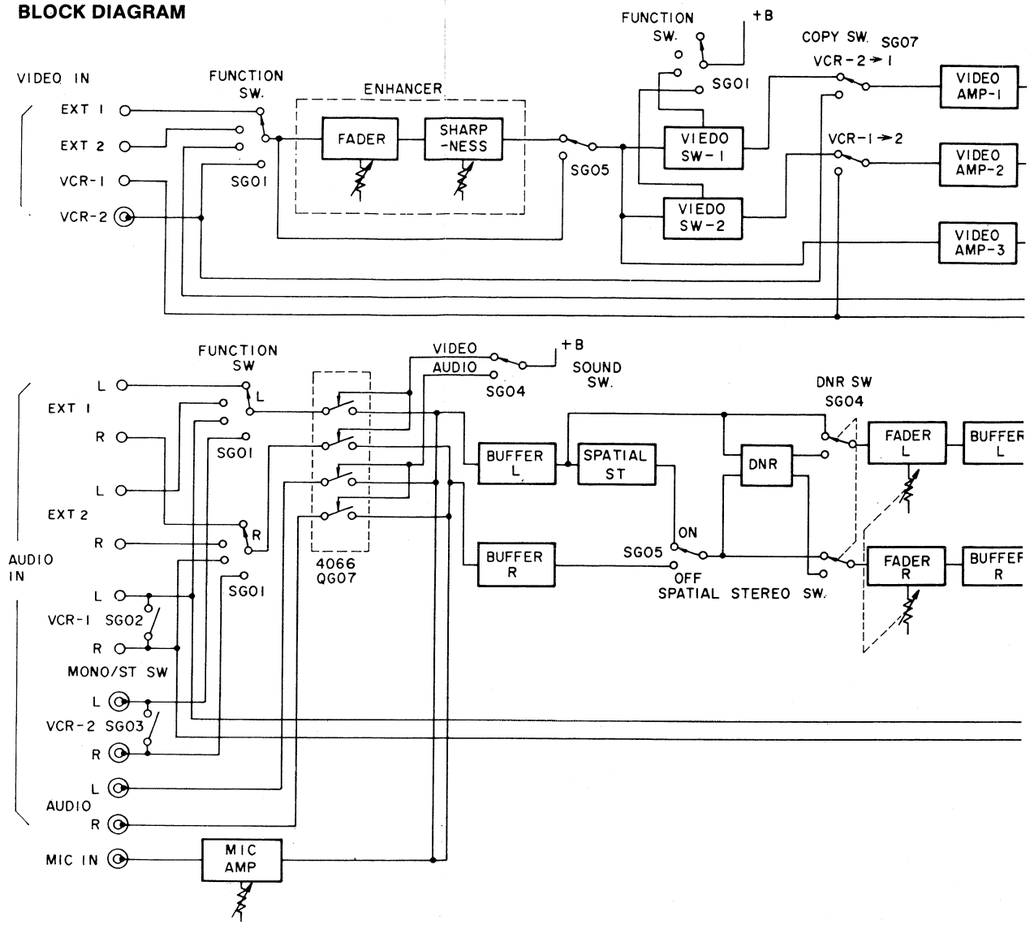
SEZIONE AUDIO (AUDIO, MIC)

Sensibilità d'ingresso audio/impedenza	500 mV/10 kΩ
Sensibilità d'ingresso Mic/impedenza	2.2 mV/15 kΩ
Livello di uscita audio/impedenza	500 mV/250 Ω
Separazione (segnale audio S/D)	50 dB (1 kHz)
Diafonia (Audio→Audio)	50 dB (1 kHz)
(Video→Audio)	65 dB (50 Hz. 15 kHz)
(Audio→Video)	60 dB (1 kHz)
Curva di risposta (segnale audio)	—3 dB (20 Hz - 60 kHz)
Livello d'ingresso (segnale audio)	2 Vrms
Livello di uscita (segnale audio)	2 Vrms

GENERALITA

Tensione rete	220-240 V~/50 Hz
(Consumo) Potenza assorbita	7 W
Dimensioni (larg. x alt. x prof.)	420x37x192 mm
Peso	2.0 kg

BLOCK DIAGRAM



(GB)

WARNING

Safety regulations demand that the set be restored to its original condition and that components identical to the original types be used.
Safety components are marked by the symbol ⚠.

(F)

AVERTISSEMENT

Les normes de sécurité exigent qu'après réparation l'appareil soit remis dans son état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.
Les composants de sécurité sont marques avec ⚠.

(NL)

WAARSCHUWING

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de oorspronkelijke, worden toegepast.
De veiligheidsonderdelen zijn aangeduid met het symbool ⚠.

(D)

WARNUNG

Die Sicherheitsvorschriften erfordern, dass das Gerät sich nach der Reparatur in seinem originalen Zustand befindet und dass die benutzen Einzelteile und die aufgeführten Teilen identisch sind.
Die Sicherheitsbauteile sind mit der Markierung ⚠ versehen.

(F)

CARACTERISTIQUES TECHNIQUES

SECTION VIDEO (EXT.1, EXT.2, VCR1, VCR2)

Sensibilité d'entrée vidéo/impédance	1 Vpp/75Ω
Niveau de sortie vidéo/impédance	1 Vpp/75Ω
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Diaphonie (signal vidéo)	45 dB (4.43 MHz)
Courbe de réponse (signal vidéo)	±3 dB (10 Hz - 7 MHz)
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Niveau de sortie audio/impédance	500 mV/250 Ω
Rapport signal/bruit (150 mV signal audio)	60 dB
Effet DNR (signal audio)	10 dB
Séparation (signal audio, G/D)	50 dB (1 kHz)
Diaphonie (signal audio)	50 dB (1 kHz)
Courbe de fréquence (signal audio)	—3 dB (20 Hz - 60 kHz)

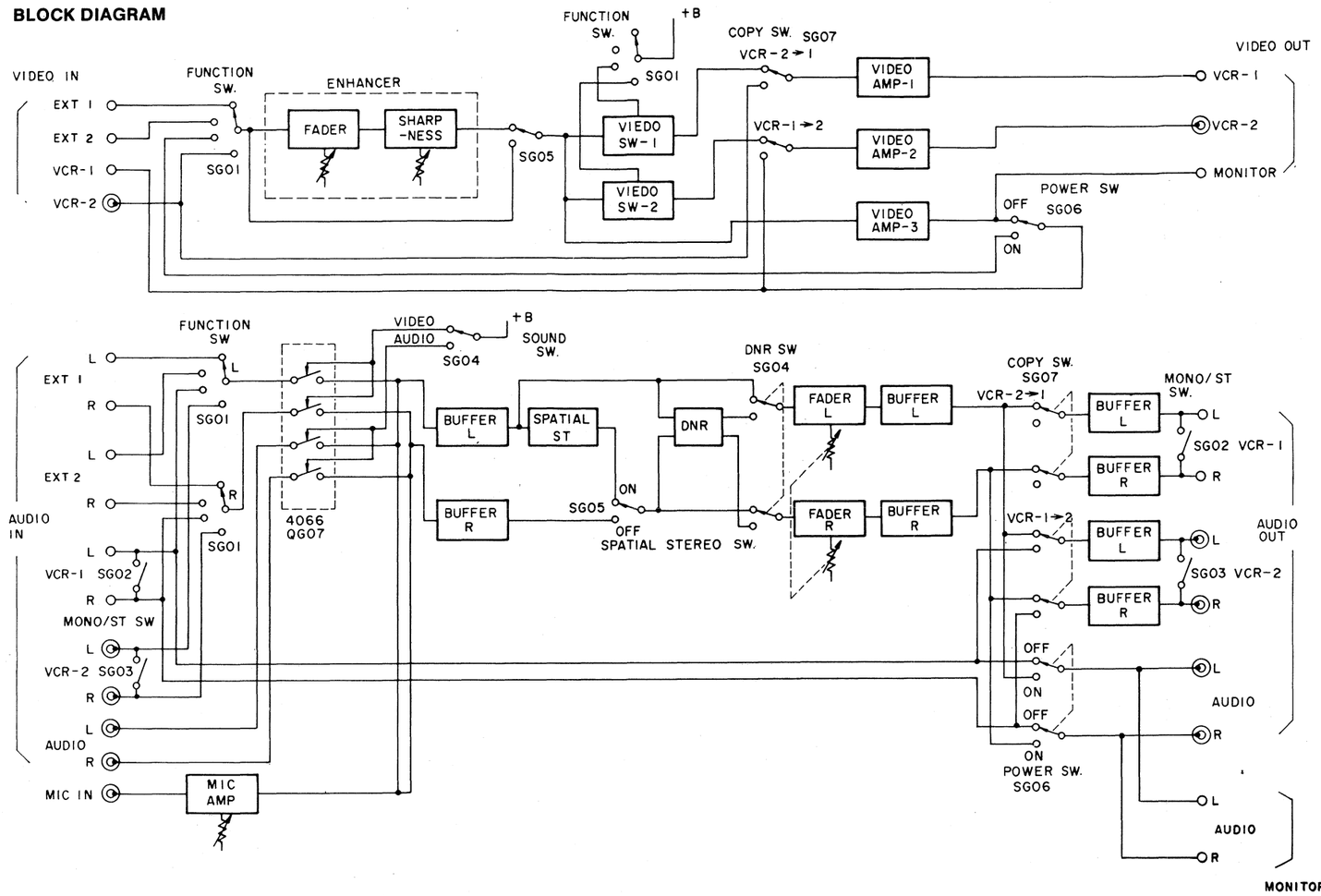
SECTION AUDIO (AUDIO, MIC)

Sensibilité d'entrée /impédance (audio)	500 mV/10 kΩ
Sensibilité d'entrée Mic/impédance	2.2 mV/15 kΩ
Niveau de sortie audio/impédance	500 mV/250 Ω
Rapport signal/bruit (150 mV signal audio)	50 dB (1 kHz)
Séparation (signal audio G/D)	50 dB (1 kHz)
Diaphonie (Audio→Audio)	65 dB (50 Hz. 15 kHz)
(Video→Audio)	60 dB (1 kHz)
(Audio→Video)	—3 dB (20 Hz - 60 kHz)
Courbe de réponse (signal audio)	2 Vrms
Niveau d'entrée max. (signal audio)	2 Vrms
Niveau de sortie max. (signal audio)	

GENERALITES

Tension secteur	220-240 V~/50 Hz
(Consommation) Puissance absorbée	7 W
Dimensions (larg. x haut x prof.)	420x37x192 mm
Poids	2.0 kg

BLOCK DIAGRAM



(GB)

WARNING

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(F)

AVERTISSEMENT

Les normes de sécurité exigent qu'après réparation l'appareil soit remis dans son état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.
Les composants de sécurité sont marques avec ⚠.

(NL)

WAARSCHUWING

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de oorspronkelijke, worden toegepast.
De veiligheidsonderdelen zijn aangeduid met het symbool ⚠.

(D)

WARNUNG

Die Sicherheitsvorschriften erfordern, dass das Gerät sich nach der Reparatur in seinem originalen Zustand befindet und dass die benutzen Einzelteile und die aufgeführten Teilen identisch sind.
Die Sicherheitsbauteile sind mit der Markierung ⚠ versehen.

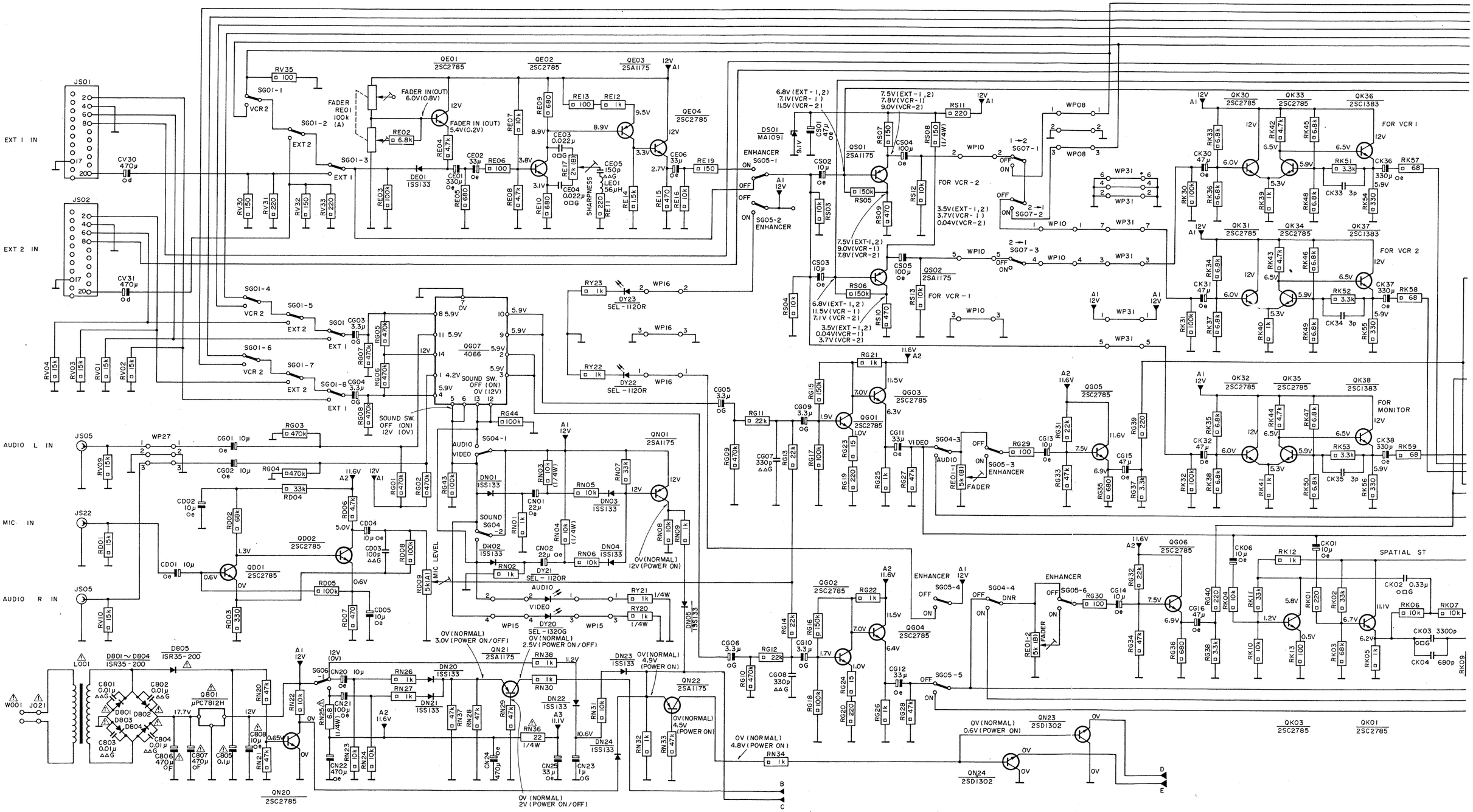
(I)

AVVENTENZE

Le norme di sicurezza richiedono, dopo una riparazione, di ripristinare sempre le condizioni originali dell'apparecchio e di utilizzare ricambi identici agli originali.
I componenti di sicurezza sono contrassegnati col simbolo ⚠

SCHEMATIC DIAGRAM

R	RV01 ~ RV04 RV30 ~ RV33 RV35 RG01 ~ RG08 RE01 RE02 ~ RE17 RE19 RY22 RY23 RS03 ~ RS13 RK30 ~ RK59
	RV09 RV10 RD01 RD02 ~ RD09 RN20 ~ RN27 RG43 RG44 RN01 ~ RN09 RN28 ~ RN34 RN36 ~ RN38 RY20 RY21 RG09 ~ RG28 RE01 RG29 ~ RG40 RK04 RK10 ~ RK13 RK01 ~ RK03 RK05 ~ RK09
C	CV30 CV31 CD01 ~ CD05 CG03 CG04 CE01 ~ CE06 CS01 ~ CS05 CK30 ~ CK38
	C801 ~ C808 CG01 CG02 CN20 ~ CN22 CN01 CN02 CN23 ~ CN25 CG05 CG06 CG07 ~ CG12 CG13 ~ CG16 CK01 ~ CK06
Q – D	D801 ~ D805 Q801 QD01 QN20 QD02 DE01 QE01 QG07 DN01 ~ DN05 QN21 QE02 DN20 ~ DN24 DY20 ~ DY23 QN01 QN22 QE03 QE04 DS01 QS01 QS02 QG01 ~ QG05 QN23 QN24 QG06 QK30 ~ QK38 QK01 ~ QK03
L – S – T	L001 SG01-1 ~ SG01-8 SG06-1 SG04-1 SG04-2 SG05-1 SG05-2 SG04-3 SG04-4 SG05-3 ~ SG05-6 SG07-1 ~ SG07-3



B RE01 RE02 ~ RE17 RE19 RY22 RY23 RS03 ~ RS13 RK30 ~ RK59

RN27 RG43 RG44 RN01 ~ RN09 RN28 ~ RN34 RN36 ~ RN38 RY20 RY21 RG09 ~ RG28 RE01 RG29 ~ RG40 RK04 RK10 ~ RK13 RK01 ~ RK03 RK05 ~ RK09 R901 R902 R903 R904

CG04 CE01 ~ CE06 CS01 ~ CS05 CK30 ~ CK38 C901 ~ C912

CN01 CN02 CN23 ~ CN25 CG05 CG06 CG07 ~ CG12 CG13 ~ CG16 CK01 ~ CK06 QN25 QN26 Q901

DE01 QE01 QG07 DN01 ~ DN05 QN21 QE02 DN20 ~ DN24 DY20 ~ DY23 QN01 QN22 QE03 QE04 DS01 QS01 QS02 QG01 ~ QG05 QN23 QN24 QG06 QK30 ~ QK38 QK01 ~ QK03

SG04-1 SG04-2 SG05-1 SG05-2 SG04-3 SG04-4 SG05-3 ~ SG05-6 SG07-1 ~ SG07-3 SG01-9 ~ SG01-12 SG04-5 ~ SG04-8

QE01 2SC2785 QE02 2SC2785 QE03 2SA1175 QE04 2SC2785

FADER IN(OUT) 6.0V(0.8V)

FADER IN (OUT) 5.4V(0.2V)

ENHANCER SG05-1

SG05-2 ENHANCER

SOUND SW. OFF (ON) 12V (OV)

SOUND SW. OFF (ON) OV (12V)

SG07 4066

SEL - 1120R

SEL - 1320G

MIC LEVEL

AUDIO VIDEO SG04

SG07-1 SG07-2 SG07-3

FOR VCR-1

FOR VCR-2

QS01 2SA1175 QS02 2SA1175

QG01 2SC2785 QG02 2SC2785 QG03 2SC2785 QG04 2SC2785 QG05 2SC2785 QG06 2SC2785

QK30 2SC2785 QK33 2SC2785 QK36 2SC1383 FOR VCR 1

QK31 2SC2785 QK34 2SC2785 QK37 2SC1383 FOR VCR 2

QK32 2SC2785 QK35 2SC2785 QK38 2SC1383 FOR MONITOR

QK03 2SC2785 QK01 2SC2785 QK02 2SC2785

QN01 2SA1175 QN21 2SA1175 QN22 2SA1175

QN23 2SD1302 QN24 2SD1302

Q901 LM1894

SPATIAL ST

REE1-1 5k(B) FADER

REE1-2 5k(B) FADER

OV(NORMAL) 0.7V(POWER SW. ON/OFF)

OV(NORMAL) 12V(POWER ON)

OV(NORMAL) 3.0V(POWER ON/OFF)

OV(NORMAL) 2.5V(POWER ON/OFF)

OV(NORMAL) 4.9V(POWER ON)

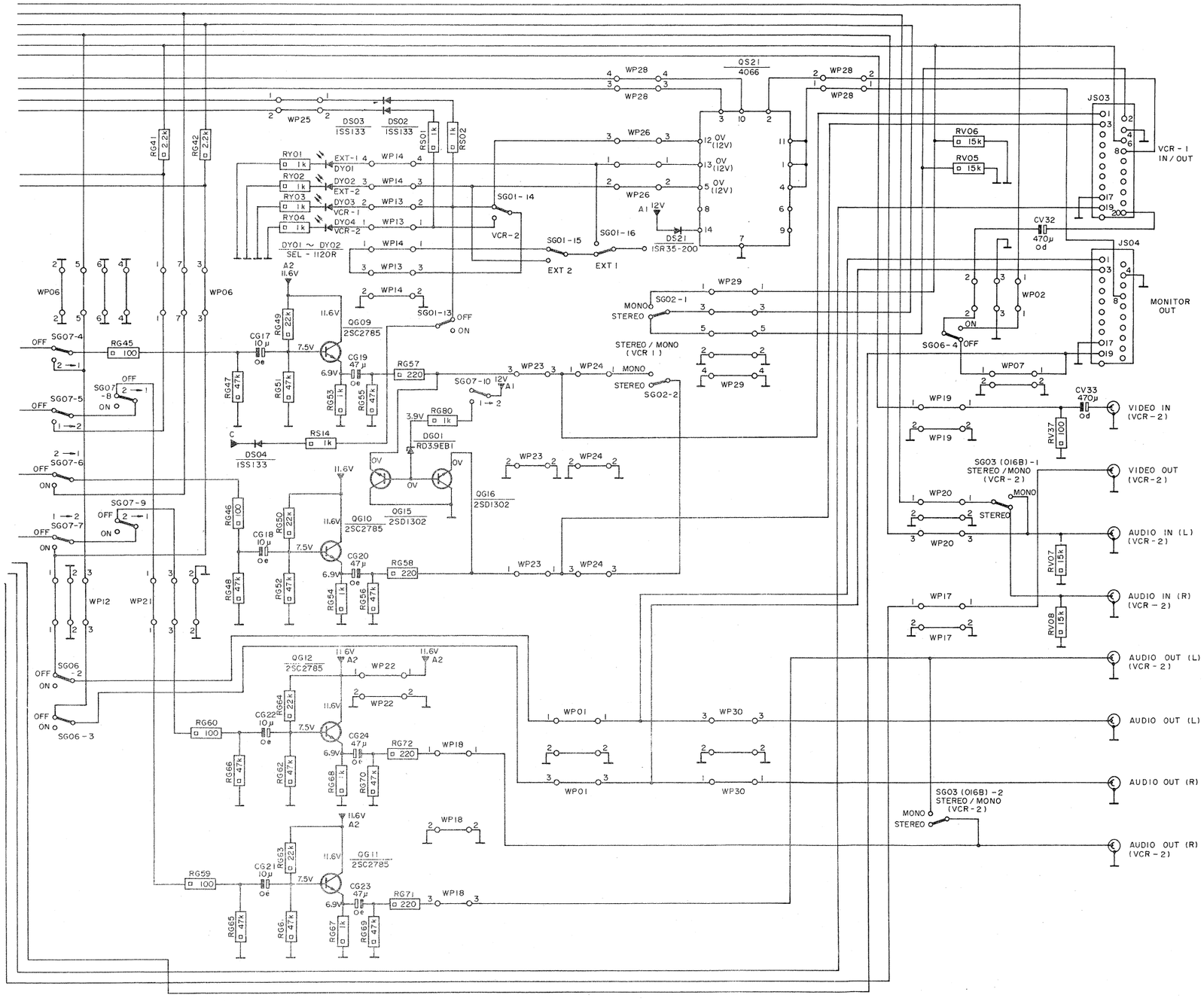
OV(NORMAL) 4.5V(POWER ON)

OV(NORMAL) 4.8V(POWER ON)

OV(NORMAL) 0.6V(POWER ON)

OV(NORMAL) 2V(POWER ON/OFF)

RG45 RG41 RG42	RY01 ~ RY04 RS01 RS02 RV05 RV06	R
RG46 ~ RG58 RS14 RG59 ~ RG72 RG80	RV37 RV07 RV08	
CG17 ~ CG20	CV32	C
CG21 ~ CG24	CV33	
DS04	DY01 ~ DY04 DSC2 DS03 QG09 ~ QG12 QG15 QG16 DG01 DS21 QS21	Q – D
SG07-4 ~ SG07-9 SG06-2 SG06-3	SG07-10 SG01-13 ~ SG01-16 SG02-1 SG02-2 SG06-4 SG03-1 SG03-2	L–S–T

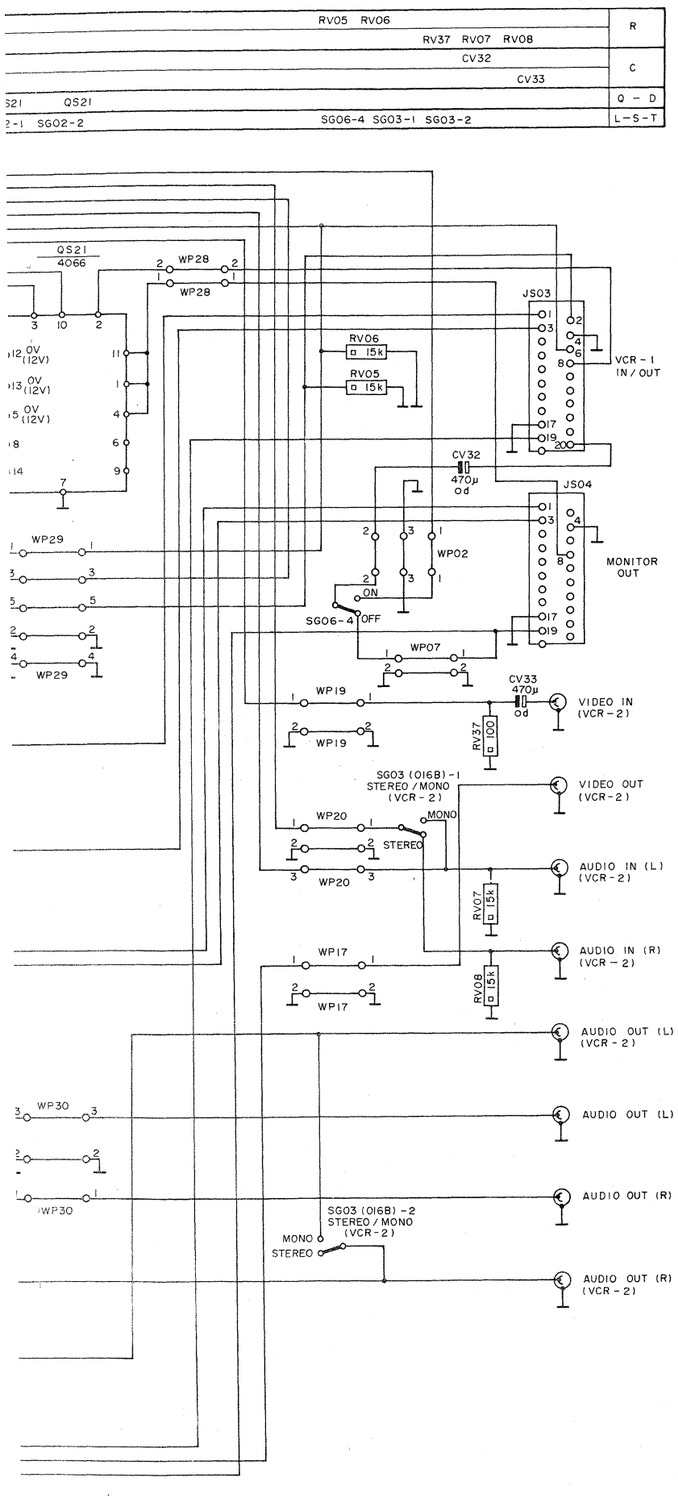


△△*	Ceramic plate Tuning ⩽ 120 pF NP.0 Others	2% –20/+80%
●●*	Polyester flat foil	10%
□*	Metalized polyester flat film	10%
○□*	Polyester flat foil small size (Mylar)	10%
○△*	Polysterene film/foil	1%
■▲*	Tubular ceramic	
○*	Miniature single	
○○*	Subminiature tantalum	± 20%

Carbon film	0.125 W or 0.2 W	70°C	5%
Carbon film	0.25 W or 0.33 W	70°C	5%
Metal film	0.25 W or 0.33 W	70°C	5%
Carbon film	0.5 W	70°C	5%
Carbon film	0.67 W	70°C	5%
Carbon film	1 W or 1.15 W	70°C	5%

*a	= 2.5 V	t	= 350 V
b	= 4 V	u	= 400 V
c	= 6.3 V	v	= 500 V
d	= 10 V	w	= 630 V
e	= 16 V	x	= 1000 V
f	= 25 V	A	= 1.6 V
g	= 40 V	B	= 6 V
h	= 63 V	C	= 12 V
j	= 100 V	D	= 15 V
l	= 125 V	E	= 20 V
m	= 150 V	F	= 35 V
n	= 160 V	G	= 50 V
q	= 200 V	H	= 75 V
r	= 250 V	I	= 80 V
s	= 300 V		

Ⓒ Chip component



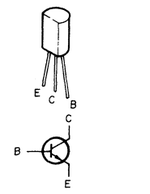
△△*	Ceramic plate Tuning ⩽ 120 pF NP.0 Others	2% −20/+80%
●●*	Polyester flat foil	10%
□*	Metalized polyester flat film	10%
○□*	Polyester flat foil small size (Mylar)	10%
○△*	Polysterene film/foil	1%
■▲*	Tubular ceramic	
○*	Miniature single	
○○*	Subminiature tantalum	± 20%

*a	= 2.5 V	t	= 350 V
b	= 4 V	u	= 400 V
c	= 6.3 V	v	= 500 V
d	= 10 V	w	= 630 V
e	= 16 V	x	= 1000 V
f	= 25 V	A	= 1.6 V
g	= 40 V	B	= 6 V
h	= 63 V	C	= 12 V
j	= 100 V	D	= 15 V
l	= 125 V	E	= 20 V
m	= 150 V	F	= 35 V
n	= 160 V	G	= 50 V
q	= 200 V	H	= 75 V
r	= 250 V	I	= 80 V
s	= 300 V		

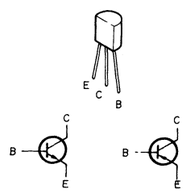
	Carbon film 0.125 W or 0.2 W	70°C	5%
	Carbon film 0.25 W or 0.33 W	70°C	5%
	Metal film 0.25 W or 0.33 W	70°C	5%
	Carbon film 0.5 W	70°C	5%
	Carbon film 0.67 W	70°C	5%
	Carbon film 1 W or 1.15 W	70°C	5%

Ⓒ Chip component

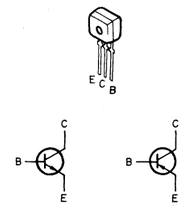
SEMICONDUCTOR LAYOUT



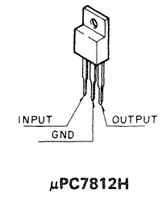
2SC1383



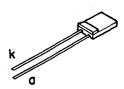
2SD1302 **2SC536NP**



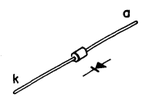
2SC2785 **2SA1175**



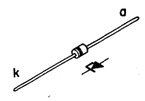
µPC7812H



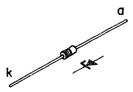
SEL-1120R
SEL-1320G



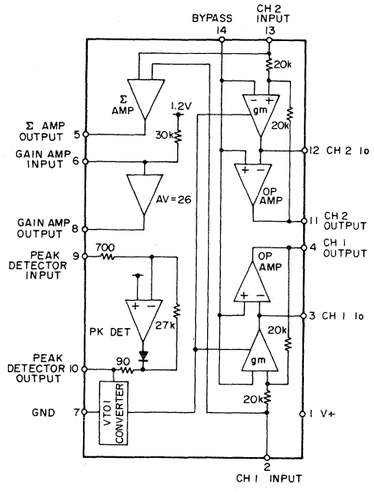
1SS133
1SR35-200



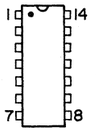
RD3.9EB1



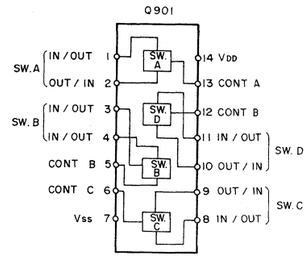
MA1091



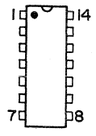
TOP VIEW



LM1894N



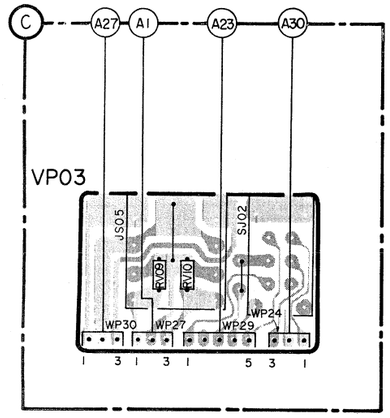
TOP VIEW

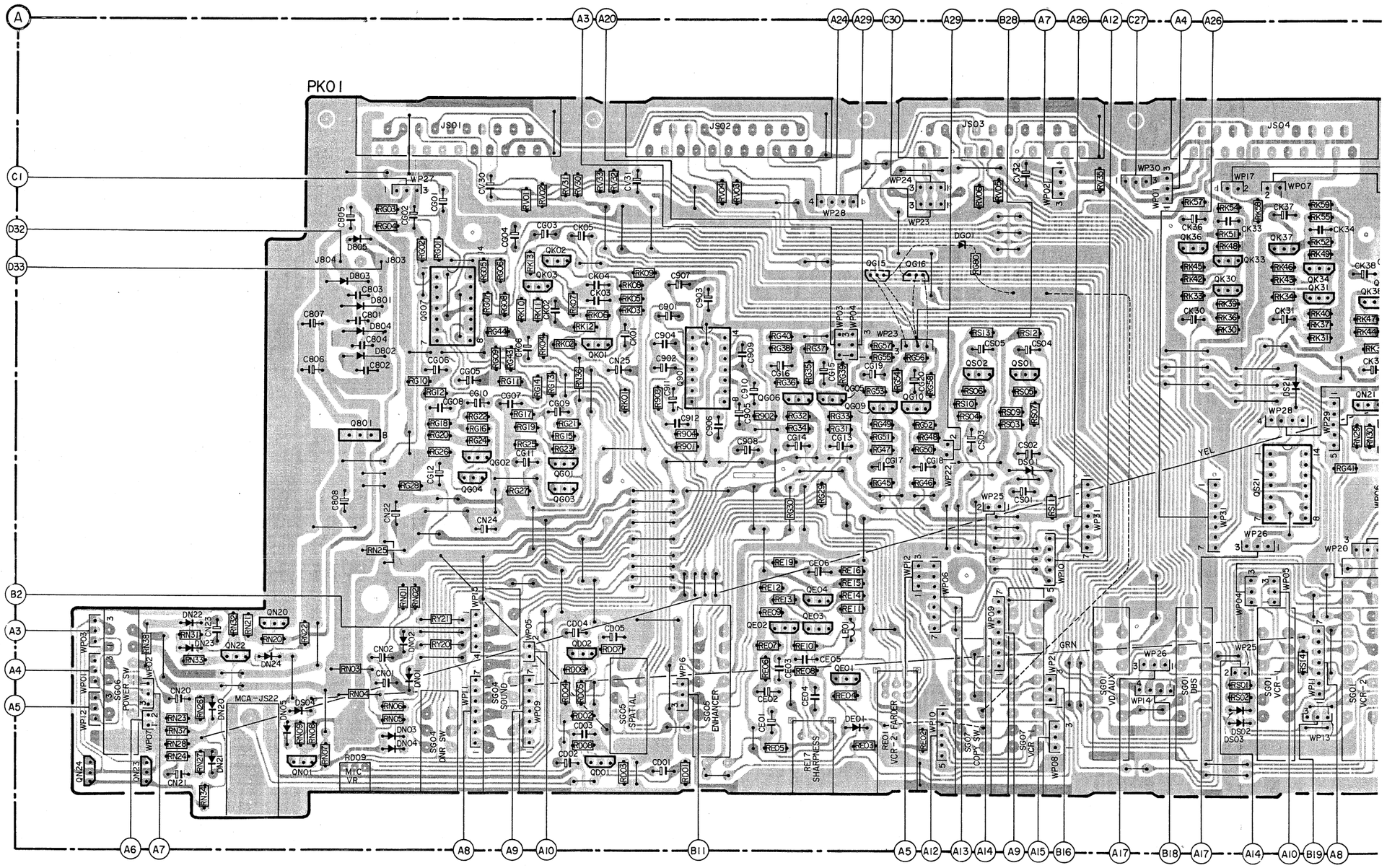


LC4066B

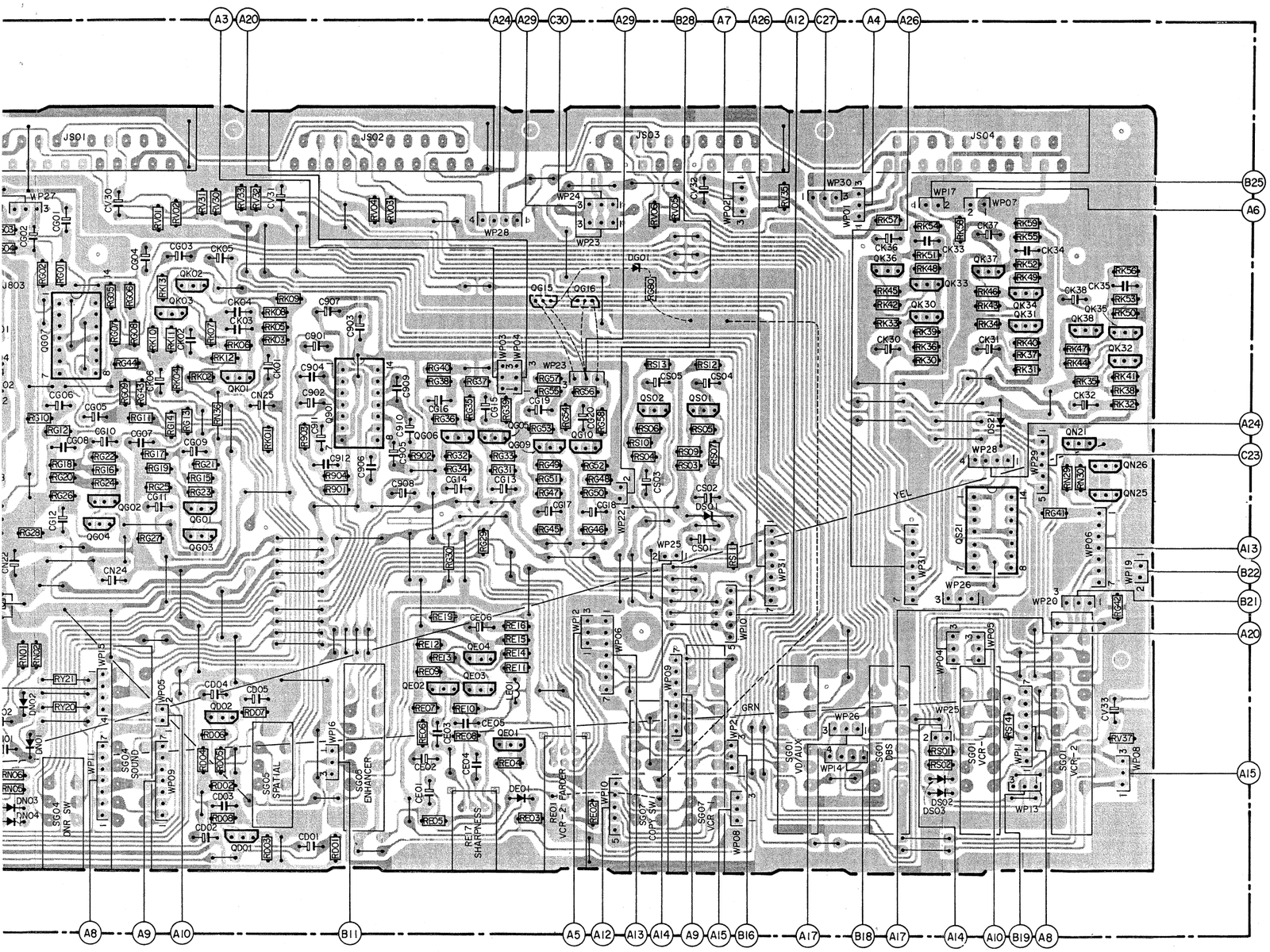
P C BOARD AND WIRING DIAGRAM

D	DN20～DN24 DN05 DS04 D801～D805 DN01～DN04 DE01 DG01 DS01 DS03 DS02 DS21
L	LE01
C	C801～C808 CG02 CG01 CV30 CK01～CK06 CN25 CV31 C901～C912 CG13～CG20 CV32 CS01～CS05 CK30～CK38
R	CN20 CN21 CN23 CN01 CN02 CN22 CG03～CG12 CN24 CD01～CD05 CE01～CE06
	RV09 RV10 RN37 RN26～RN28 RG01 RG28 RG44 RG43 RV01 RV02 RV30～RV33 RV04 RV03 RG45～RG58 RG80 RV06 RV05 RV35 RK30～RK59
	RN38 RN31～RN34 RN25 RY21 RY20 RK01～RK13 RN36 R901～R904 RE19 RS03～RS07 RS09～RS13 RN29 RN
Q	RN20～RN24 RN03～RN09 RN02 RN01 RD01～RD08 RG29～RG40 RE02～RE16 RS01 RS02 RS14 RG41
	QN24 QN23 QN22 QN20 QN01 Q801 QG07 QG04 QG02 QK03 QK02 QK01 QG01 QG03 Q901 QD02 QD01 QG06 QG05 QE02 QE03 QE04 QE01 QG09 QG10 QG15 QG16 QS02 QS01 QK36 QK33 QK30 QK37 QS21 QK34 QK31 QK





D805 DN01～DN04 DE01 DG01 DS01 DS03 DS02 DS21 DY01～DY04 DY20～DY23	D
LE01	L
8 CG02 CG01 CV30 CK01～CK06 CN25 CV31 C901～C912 CG13～CG20 CV32 CS01～CS05 CK30～CK38 CV33 CG23 CG21 CG22 CG24	C
01 CN02 CN22 CG03～CG12 CN24 CD01～CD05 CE01～CE06	
RG01 RG28 RG44 RG43 RV01 RV02 RV30～RV33 RV04 RV03 RG45～RG58 RG80 RV06 RV05 RV35 RK30～RK59 RG59～RG72	R
RN25 RY21 RY20 RK01～RK13 RN36 R901～R904 RE19 RS03～RS07 RS09～RS13 RN29 RN30 RV07 RV08 RY23 RY22	
RN03～RN09 RN02 RN01 RD01～RD08 RG29～RG40 RE02～RE16 RS01 RS02 RS14 RG41 RG42 RV37 RY01～RY04	
QG07 QG04 QG02 QK03 QK02 QK01 QG01 QG03 Q901 QD02 QD01 QG06 QG05 QE02 QE03 QE04 QE01 QG09 QG10 QG15 QG16 QS02 QS01 QK36 QK33 QK30 QK37 QS21 QK34 QK31 QK38 QK35 QK32 QN21 QN26 QN25 QG11 QG12	Q


A3 A20 A24 A29 C30 A29 B28 A7 A26 A12 C27 A4 A26
B25 A6 A24 C23 A13 B22 B21 A20 A15
A8 A9 A10 B11 A5 A12 A13 A14 A9 A15 B16 A17 B18 A17 A14 A10 B19 A8
JS01 JS02 JS03 JS04
SG04 SOUND
SG05 SPATIAL
SG06 ENHANCER
SG07 VCR-2
SG01 VD/AUX
SG01 DBS
SG01 VCR-1
SG01 VCR-2
SG04 DNR SW
RE01 PARDER
RE01 SHARPNESS
SG07 COPY SW
YEL
GRN